

DEVOPS TASK- 2

1) Installation of Docker:

CODE :

```
sudo apt install docker.io
Docker -version
sudo systemctl start docker
sudo systemctl enable docker
sudo systemctl status docker
```

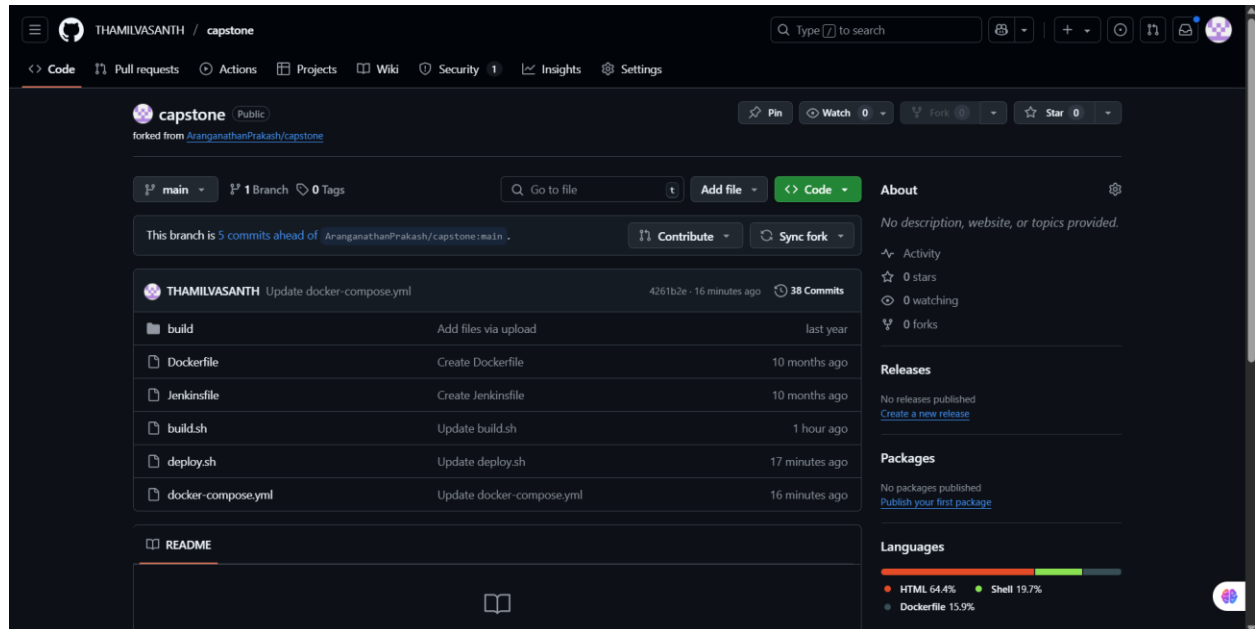
SCREENSHOT:

```
root@LAPTOP-6V70H2B0:~# apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (26.1.3-0ubuntu1-24.04.1).
The following packages were automatically installed and are no longer required:
  libdrm-intel1 libpciaccess0 libsensors-config libsensors5
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@LAPTOP-6V70H2B0:~# docker --version
Docker version 26.1.3, build 26.1.3-0ubuntu1-24.04.1
root@LAPTOP-6V70H2B0:~# sudo systemctl start docker
root@LAPTOP-6V70H2B0:~# sudo systemctl enable docker
root@LAPTOP-6V70H2B0:~# sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-03-20 06:44:32 UTC; 1h 32min ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 9561 (dockerd)
      Tasks: 30
     Memory: 62.8M
    CGroup: /system.slice/docker.service
            └─ 9561 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
               └─ 10253 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 70 -container-ip 172.17.0.2
                  └─ 10261 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 70 -container-ip 172.17.0.2 -con

Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185897971Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185409232Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185440810Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185455418Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185496240Z" level=info msg="Docker d
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185848402Z" level=info msg="Daemon h
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.379285869Z" level=info msg="API list
Mar 20 06:44:32 LAPTOP-6V70H2B0 systemd[1]: Started docker.service - Docker Application Container Engine.
Mar 20 06:45:16 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:45:16.485475078Z" level=info msg="Layer sh
Mar 20 06:45:16 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:45:16.550116575Z" level=info msg="Layer sh
time="1-23/23 (END)" ... skipping...
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
```

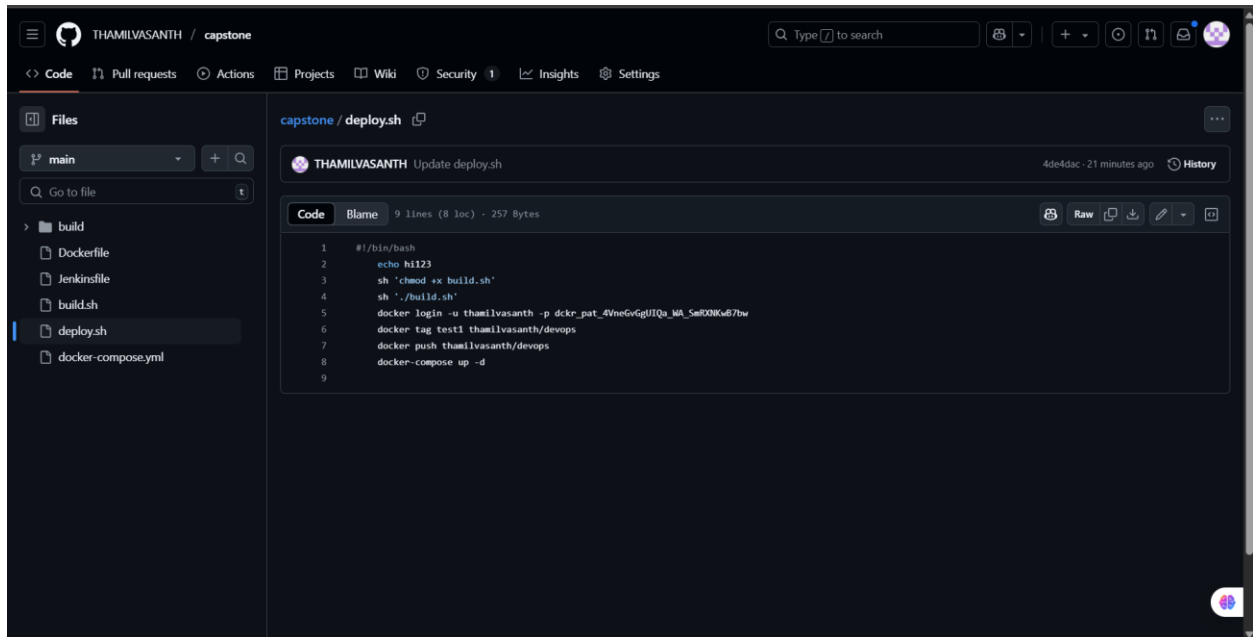
2) Fork a copy of a GitHub repo which contains the necessary files which will result in the clone of that repo in our own repository

SCREENSHOT :



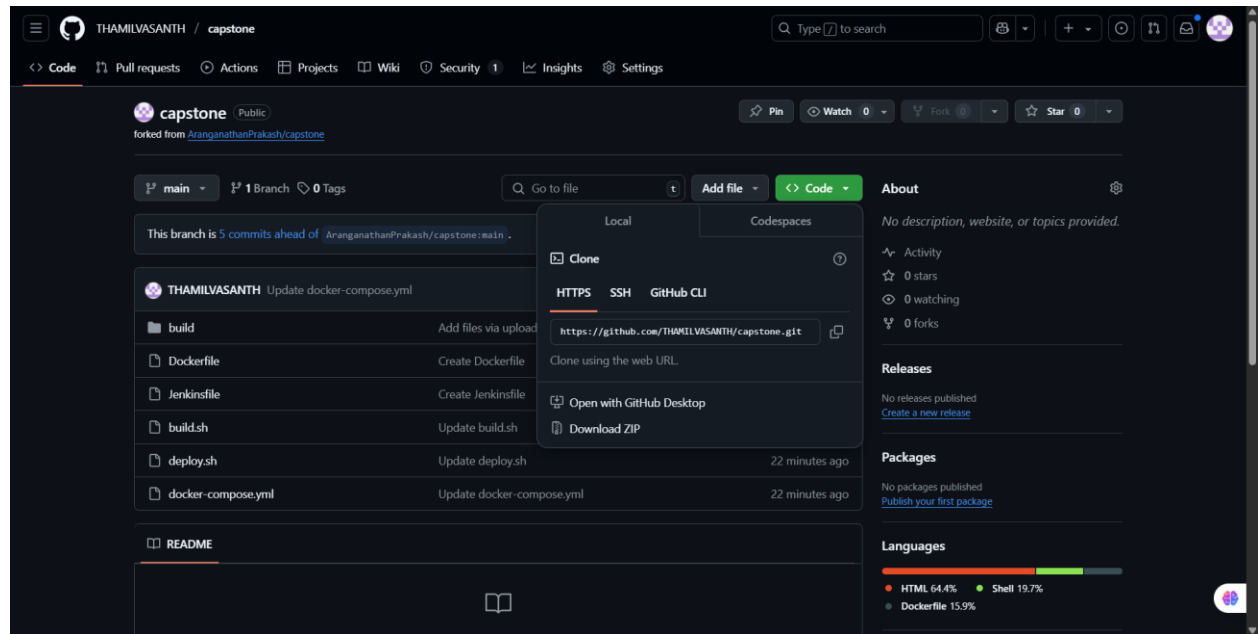
- 3) Then change the token and repo name of the docker Hub in the deploy.sh file which is in our repository.

SCREENSHOT :



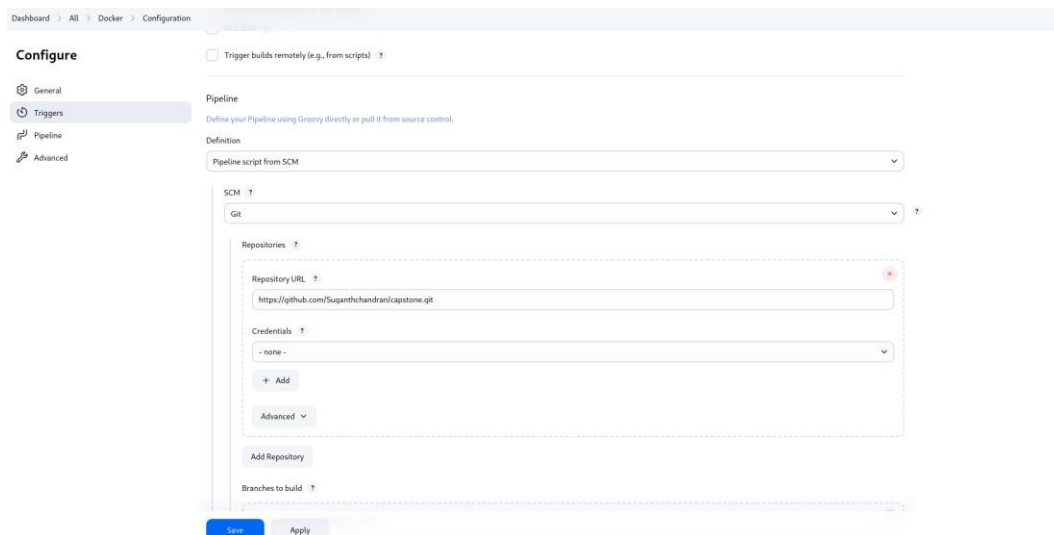
4) Then copy the GitHub link of the repository and go to Jenkins.

SCREENSHOT:



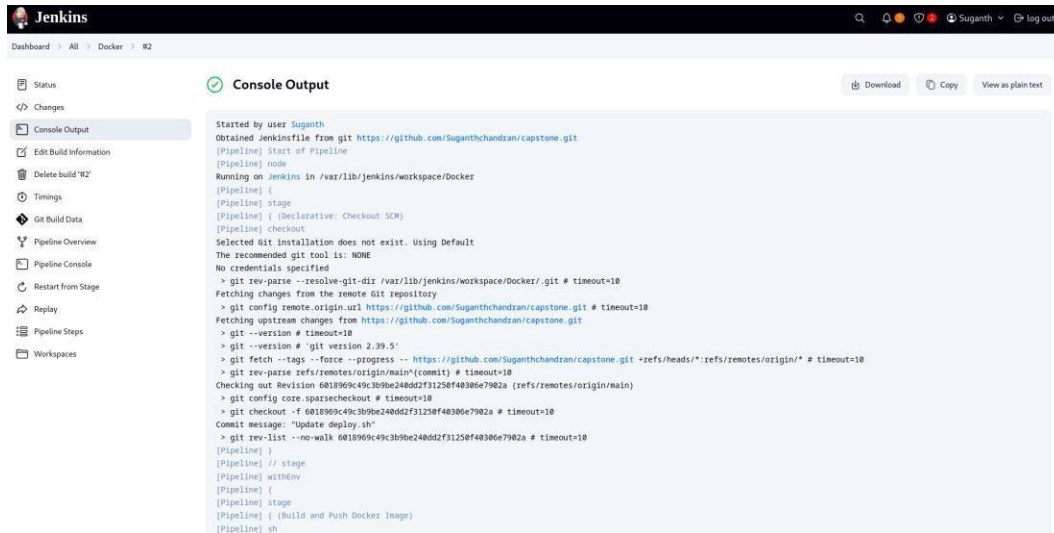
- 5) In Jenkins, create a new item (Job) with a type pipeline and add the copied GitHub url to it with the correct branch and Jenkinsfile.

SCREENSHOT:



- 6) After Creating the job, build it and it will give the console output and the docker image will be created.

SCREENSHOT:



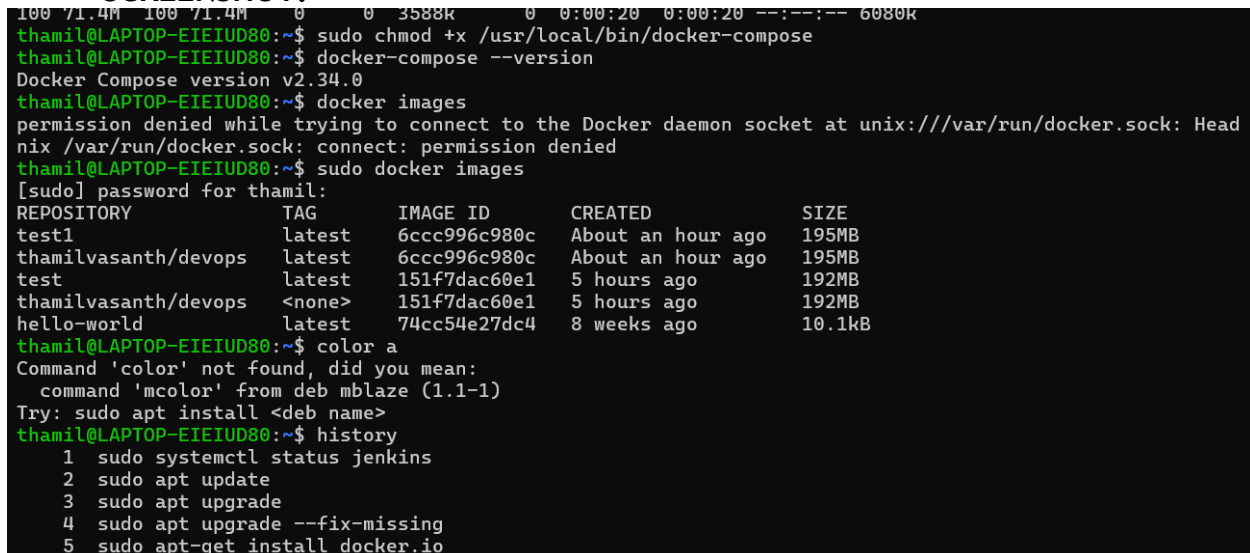
7) Now Built this docker image in the terminal with desired port number to it.

CODE:

docker images

docker build -itd -p 70:80 test1

SCREENSHOT:



- 8) Go to the Browser and search for localhost:<PORT_NUMBER> and the respective application will be hosted.

SCREENSHOT:

